

**From:** [Payton, Richard](#)  
**To:** [Brown, Ethan](#)  
**Subject:** FW: 2017 amended fireworks EE  
**Date:** Wednesday, April 17, 2019 4:00:00 PM  
**Attachments:** [Amended 2017 Fireworks EE.pdf](#)

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**From:** Ostigaard, Crystal  
**Sent:** Wednesday, April 17, 2019 1:01 PM  
**To:** Jackson, Scott <[Jackson.Scott@epa.gov](mailto:Jackson.Scott@epa.gov)>; Morales, Monica <[Morales.Monica@epa.gov](mailto:Morales.Monica@epa.gov)>; Rickard, Joshua <[Rickard.Joshua@epa.gov](mailto:Rickard.Joshua@epa.gov)>; Payton, Richard <[Payton.Richard@epa.gov](mailto:Payton.Richard@epa.gov)>; Fallon, Gail <[fallon.gail@epa.gov](mailto:fallon.gail@epa.gov)>; Odendahl, Steve <[Odendahl.Steve@epa.gov](mailto:Odendahl.Steve@epa.gov)>; Skinner-Thompson, Jonathan <[Skinner-Thompson.Jonathan@epa.gov](mailto:Skinner-Thompson.Jonathan@epa.gov)>  
**Subject:** FW: 2017 amended fireworks EE

To all,

Attached is UT's updated EE package for possible fireworks in 2017. Let me know if there's anything else UT needs to provide. Thanks!

Crystal Ostigaard  
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Air Quality Planning Unit  
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**From:** Joel Karmazyn <[jkarmazyn@utah.gov](mailto:jkarmazyn@utah.gov)>  
**Sent:** Wednesday, April 17, 2019 12:56 PM  
**To:** Ostigaard, Crystal <[Ostigaard.Crystal@epa.gov](mailto:Ostigaard.Crystal@epa.gov)>  
**Cc:** [mberger@utah.gov](mailto:mberger@utah.gov)  
**Subject:** 2017 amended fireworks EE

Crystal,

I have amended the documentation by:

- Adding seasonal and annual statistics. I prefer to not use trend graphics because it would show high values in winter, 4th of July and August and September wildfire data, which diverts attention from the 4th being unique.

- Adding ranking for 2017
- More description on how fireworks generates PM2.5
- Added Tosoro comment letter

Please let me know if there is anything else you think would be beneficial.

Joel

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*Joel Karmazyn  
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